

## SELECTION & SPECIFICATION DATA

<b>General Paint Name</b>	High-build, lead-free, chromium-free, anticorrosive paint
<b>Generic Type</b>	Urethane-modified alkyd resin
<b>Description</b>	Single-component, urethane-modified alkyd resin paint with excellent quick-drying characteristics. Recommended for the use for various steel structures.
<b>Features</b>	<ul style="list-style-type: none"> <li>• Can be topcoated three hours after application (@20°C)</li> <li>• "Low VOC paint" (Weight solids ≥ 70%)</li> <li>• Meets the requirements of Formaldehyde Emission Grade, "F 4 Stars"</li> </ul>
<b>Color</b>	Available in a limited variety of colors and light colors
<b>Primer</b>	Direct to substrates.
<b>Solid(s) Content</b>	By Volume 60% +/- 2%
<b>Solids Content</b>	By Weight 77% +/- 2%
<b>Density</b>	1.55 +/- 0.03 g/ cm <sup>3</sup>
<b>VOC Values</b>	<b>As Supplied</b> : 362 g/ L

Application Method	Dry Film Thickness (microns/coat)	Theoretical Coverage Rate (g/m <sup>2</sup> )	Practical Coverage Rate (g/m <sup>2</sup> )*
Spray	70	181	260 ~ 300
Brush/ Roller	35	91	100 ~ 120

\*: Practical Coverage Rates are estimates based on average results. Individual results may vary based on several issues including the shape and location of the item being painted as well as environmental conditions like temperature, humidity and wind. The skill level of those applying the paint will also impact the final results. For details, consult Japan Carboline staff.

<b>Wet/ Dry (As Supplied)</b>	1.66
<b>Sag Resistance (Dry)</b>	150 microns
<b>Dry Temp. Resistance</b>	Continuous: 80°C (176°F)
<b>Limitations</b>	Not recommended for immersion services in acids, alkalis, or strong solvents.

## SUBSTRATES & SURFACE PREPARATION

**General** | Generally applied over substrates prepared in accordance with ISO St 3 or St 2.

## MIXING & THINNING

<b>Mixing</b>	Prior to application, power mix until uniform consistency.
<b>Thinning</b>	Use of Carboline Thinner 45 is recommended.
	Use of thinners other than those supplied or recommended by JAPAN CARBOLINE may adversely affect product performance.

# Multi-Gard FC74

## PRODUCT DATA SHEET



### APPLICATION EQUIPMENT GUIDELINES

Listed below are general equipment guidelines for the application of this product. Job site conditions may require modifications to these guidelines to achieve the desired results.

**Application Tool** | Airless spray, Brush, Roller

- Airless Spray**
- Pump Ratio: 30 : 1
  - Output Pressure: 10-15 MPa
  - Tip Size: 0.015-0.017"
  - Filter Size: 50 Mesh (if needed)
  - Thinning: up to 10 weight %
  - Appropriate Viscosity: 50-80 sec. (IHS Cup)

### APPLICATION CONDITIONS

Condition	Surface	Ambient	Humidity
Minimum	2°C (36°F)	2°C (36°F)	0%
Maximum	50°C (122°F)	49°C (120°F)	85%

### CURING SCHEDULE

Surface Temp.	Dry Hard	Minimum Recoat Time
5°C (41°F)	8 Hours	8 Hours
10°C (50°F)	5 Hours	5 Hours
20°C (68°F)	3 Hours	3 Hours
30°C (86°F)	2 Hours	2 Hours

These times are based on 70 microns of dry film thickness. Higher film thickness, insufficient ventilation or cooler temperatures will require longer cure times and could result in solvent entrapment and premature failure.

### PACKAGING, HANDLING & STORAGE

**Shelf Life** | 12 months (when kept in original unopened containers)

**Storage** | Store indoors.

**Packaging** | 20 kg kit

**Flash Point (Setaflash)** | Multi-Gard FC74: 26°C  
Carboline Thinner 45: 41°C

### UPDATE INFORMATION

**Last Modified** | May, 2023

**Control Number** | PDS081-018

## **WARRANTY**

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